

**What is claimed is:**

1. An apparatus for processing a signal, comprising:
  - 2 a signal dispensing unit for dispensing an output signal output from a personal computer in
  - 3 the form of an analog or digital signal;
  - 4 a signal processing unit for performing picture-in-picture signal processing enabling one of
  - 5 a digital personal computer signal generated by the signal dispensing unit and a decoded first signal
  - 6 input from an outside source to be displayed on a main screen and the other to be displayed on at
  - 7 least one sub-screen, and for processing the first signal to be displayed alone on the main screen, the
  - 8 first signal being any one of a television signal and a video signal;
  - 9 an outputting unit for outputting an analog personal computer signal generated from the
  - 10 signal dispensing unit in response to a control signal for displaying only the personal computer
  - 11 signal, and outputting an output signal of the signal processing unit in response to a control signal
  - 12 for displaying the picture-in-picture and first signals; and
  - 13 a monitor for amplifying the signal output from the outputting unit to be displayed.

- 1 2. The apparatus of claim 1, further comprising a signal conversion unit for converting
- 2 the picture-in-picture signal output from the signal processing unit into an analog signal before a
- 3 signal is output from the outputting unit.

- 1 3. The apparatus of claim 1, with the signal processing unit, comprising:

2 a decoding unit converting the first signal into a digital signal and decoding the first signal;  
3 a scan rate conversion unit for converting a scan rate of the decoded first signal; and  
4 a signal processing unit for performing a picture-in-picture signal process on the first signal  
5 whose scan rate is converted and the digital personal computer signal, so that one of the first signal  
6 and the digital personal computer signal is displayed on the main screen and the other of the first  
7 signal and the digital personal computer signal is displayed on the plurality of sub-screens, or for  
8 processing the first signal to be displayed alone on the main screen.

1 4. The apparatus of claim 1, with the decoded first signal input from an outside source,  
2 further comprising:

3 a decoding unit converting the first signal into a digital signal and decoding the first signal;  
4 and  
5 a scan rate conversion unit for converting a scan rate of the decoded first signal.

1 5. The apparatus of claim 2, with the decoded first signal input from an outside source,  
2 further comprising:

3 a decoding unit converting the first signal into a digital signal and decoding the first signal;  
4 and  
5 a scan rate conversion unit for converting a scan rate of the decoded first signal.

1       6.     A method for processing a signal, comprising the steps of:

2               dispensing an output signal output from a personal computer in the form of an analog or

3               digital signal;

4               performing picture-in-picture signal processing enabling one of a digital personal computer

5               signal generated by the step of dispensing the output signal and a decoded first signal input from an

6               outside source to be displayed on a main screen and the other to be displayed on at least one sub-

7               screen, and for processing the first signal to be displayed alone on the main screen, the first signal

8               being any one of a television signal and a video signal;

9               outputting an analog personal computer signal generated from the step of dispensing an

10              output signal in response to a control signal for displaying only the personal computer signal, and

11              outputting an output signal of the step of performing picture-in-picture signal processing in response

12              to a control signal for displaying the picture-in-picture and first signals;

13              amplifying the signal output from the step of outputting the analog personal computer signal;

14              and

15              displaying the amplified signal output.

1       7.     The method of claim 6, further comprising the step of converting the picture-in-

2               picture signal output from the step of performing picture-in-picture signal processing into an analog

3               signal before a signal is output from the step of outputting the analog personal computer signal.

1        8.     The method of claim 6, with the decoded first signal input from an outside source,  
2     further comprising:  
3             converting the first signal into a digital signal and decoding the first signal; and  
4             converting a scan rate of the decoded first signal.

1        9.     The method of claim 7, with the decoded first signal input from an outside source,  
2     further comprising:  
3             converting the first signal into a digital signal and decoding the first signal; and  
4             converting a scan rate of the decoded first signal.

1        10.   An apparatus for processing a signal, comprising:  
2             a personal computer generating an output signal accommodating a display of an image  
3             generated by the personal computer;  
4             a signal dispensing unit dispensing the output signal from the personal computer;  
5             a signal processing unit performing picture-in-picture signal processing enabling one of the  
6             output signal from the personal computer signal generated by the signal dispensing unit and a  
7             decoded video signal input from an outside source to be displayed on a main screen and the other  
8             to be displayed on at least one sub-screen, and for processing the video signal to be displayed alone  
9             on the main screen;  
10            an outputting unit outputting the output signal of the personal computer signal generated

11 from the signal dispensing unit in response to a control signal for displaying only the personal  
12 computer signal, and outputting an output signal of the signal processing unit in response to a control  
13 signal for displaying the picture-in-picture and video signals; and  
14 a monitor amplifying and displaying the signal output from the outputting unit.

1 11. The apparatus of claim 10, further comprising a signal conversion unit for converting  
2 the picture-in-picture signal output from the signal processing unit from a digital signal into an  
3 analog signal before a signal is output from the outputting unit.

1 12. The apparatus of claim 10, with the decoded video signal input from an outside  
2 source, further comprising:  
3 a decoding unit converting the video signal into a digital signal and decoding the video  
4 signal; and  
5 a scan rate conversion unit for converting a scan rate of the decoded video signal.

1 13. The apparatus of claim 12, with the decoded video signal input from an outside  
2 source, further comprising:  
3 a decoding unit converting the video signal into a digital signal and decoding the video  
4 signal; and  
5 a scan rate conversion unit for converting a scan rate of the decoded video signal.

1           14. The apparatus of claim 10, further comprised of the video signal being selected from  
2           the group consisting of a television video signal and a non-broadcasted video signal.

1           15. The apparatus of claim 10, further comprising:  
2           an analog to digital converter unit converting the output signal from the signal dispensing  
3           unit from an analog signal into a digital signal for the signal processing unit; and  
4           a digital to analog converter unit converting the output signal generated from the signal  
5           dispensing unit from a digital signal into an analog signal for the outputting unit.